CS 337E: Design for Global Grand Challenges

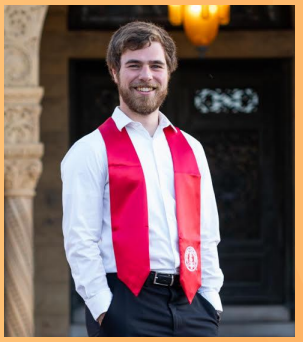
07. Med-fi Prototype 2 & Usability Study

Team Mango - nurturEd

May 17, 2023

Team Mango

Homeschool Education



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CS, HCI Coterm

Overview

1. Initial Med-Fi Feedback
2. Redesign 1
3. Usability Study
4. Redesign 2
5. AI Applications

Initial Med-Fi Feedback

- Lesson Report: ChatGPT output overload
  - Too much text
  - Need sequential information design
- Lesson Report List Filter
  - Readability: color issue

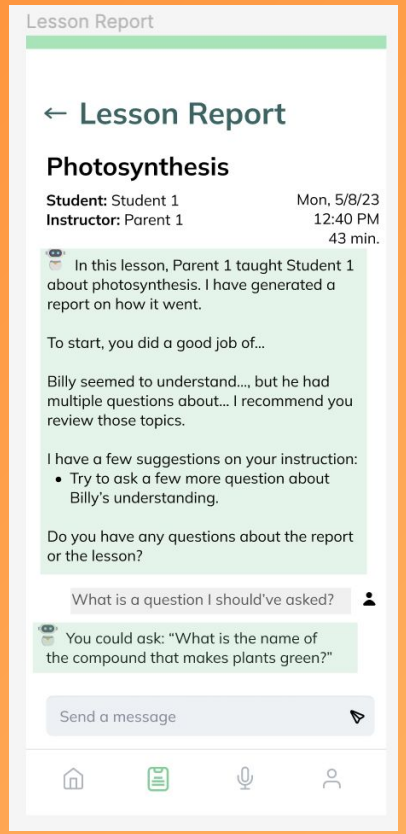
Redesign 1

Link to Figma

Redesign 1

1. Lesson Report
2. AI Agent
3. Lesson Reports List Filter

Lesson Reports



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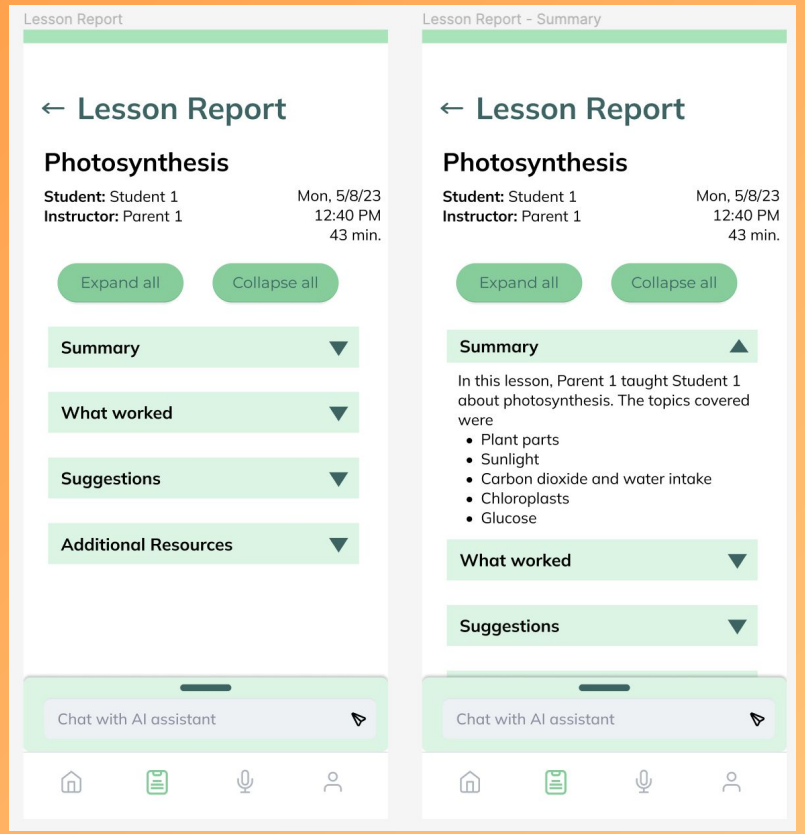
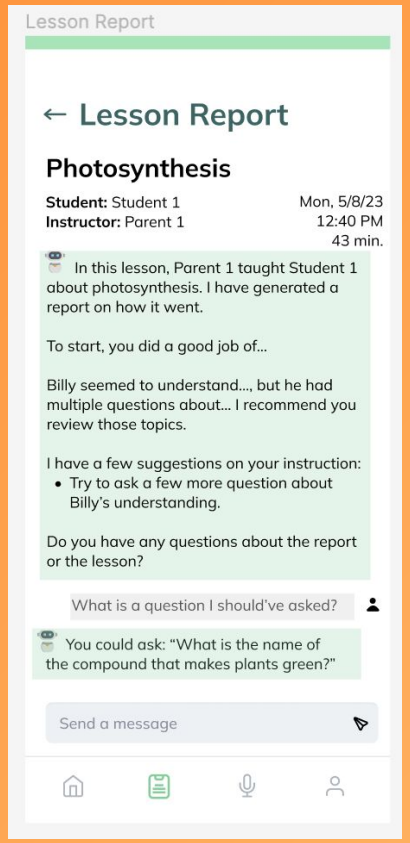


After

AI Agent



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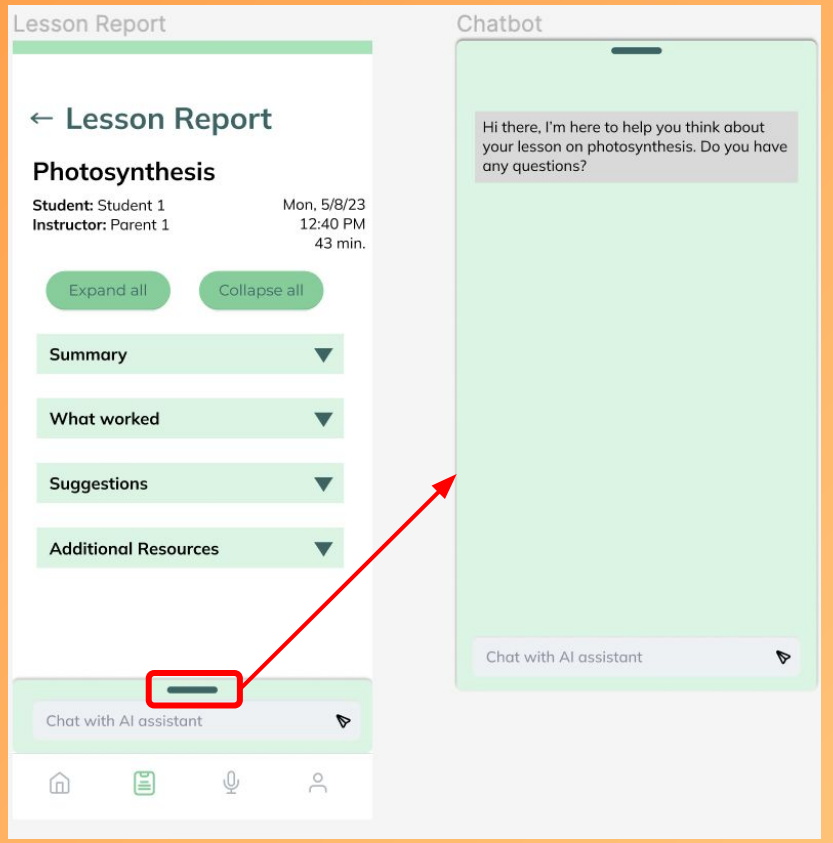
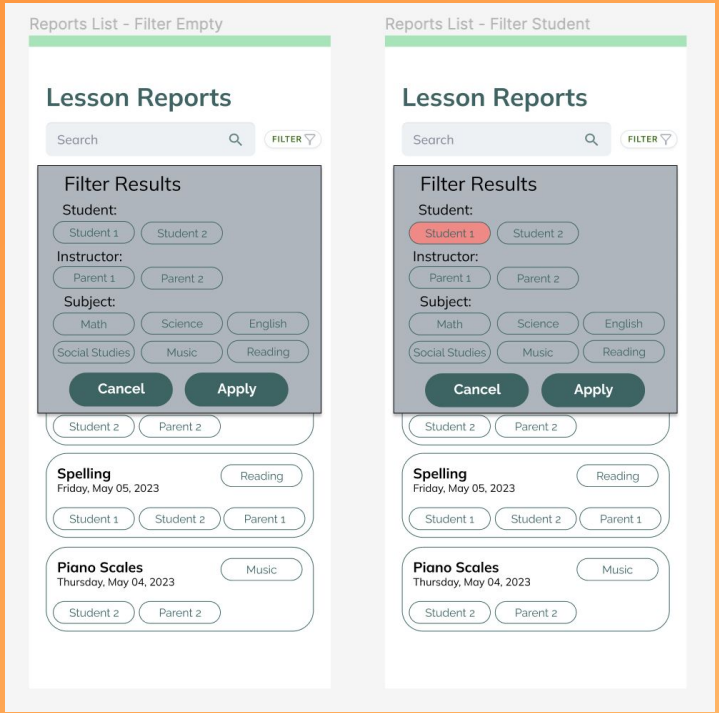


After

Lesson Reports List Filter



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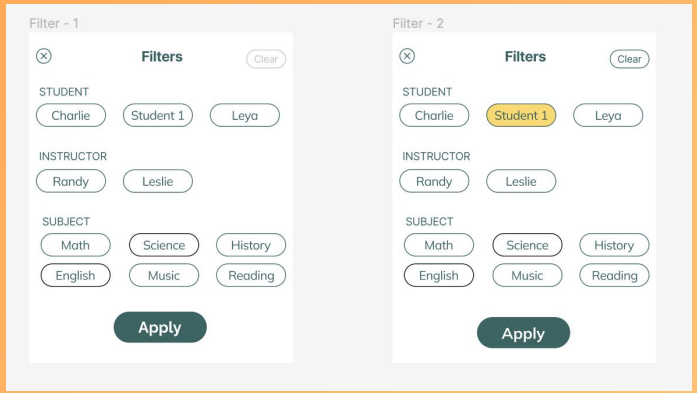


After

Usability Study

Participants

Homeschooling mother of 2

(Zoom)

Homeschooling mother of 2

(Zoom)

Homeschooling mother of 2

(Zoom)

Homeschooling expert

(BlueJeans)

Study

Goals

- Test UI
- Test UX
- Test interest in functionality

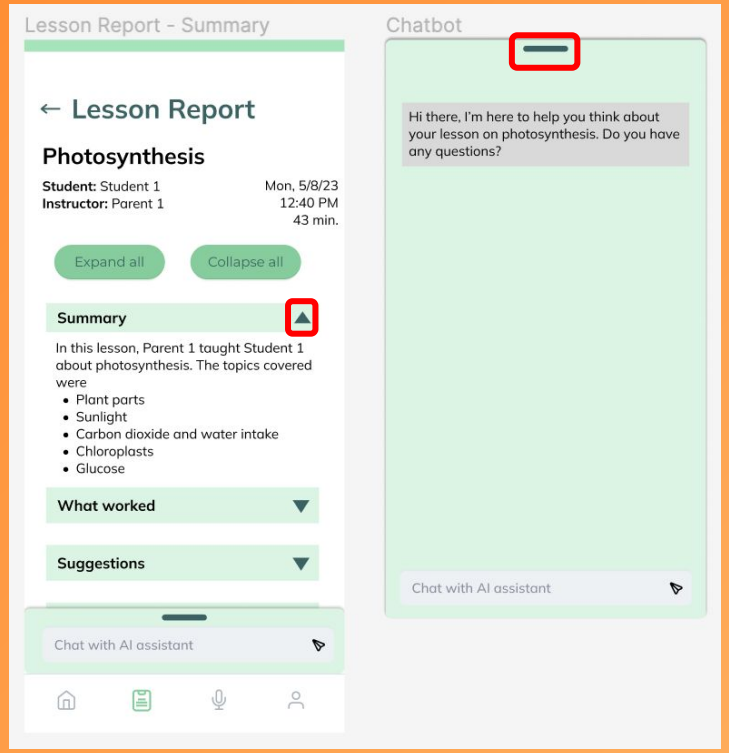
Tasks

- Explore tip of the day
- Record a lesson
- Open lesson report & interact with AI agent

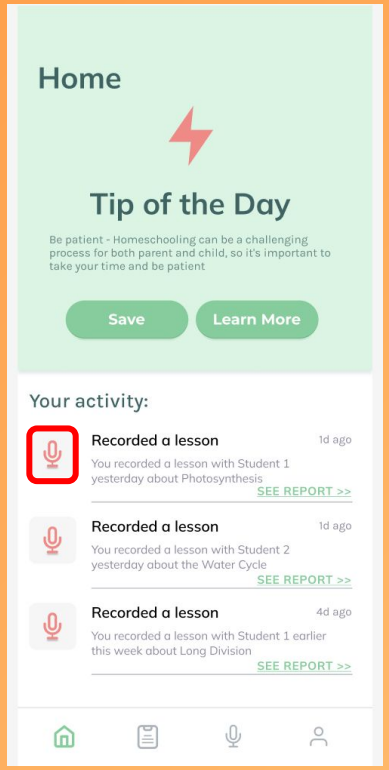
Results

1. User Interface
2. User Experience
3. Functionality

User Interface Results



Interactive elements too small



"I'm old, so the font is small." - P1

1. Font too small
2. Home page microphone confusing

User Experience Results

- Confusion about recording privacy
  - “Who gets to see this when it gets uploaded?” - P2
  - 3 of 4 participants confused

- Wanted voice modality for AI agent
  - “Oh my gosh, I’ve got to write this out!” - P1

Functionality Results

- AI agent not easily accessible in reports
  - Need general chat

- Differentiate content and methodology suggestions
  - “If you think of [homeschooling] families [without external support], this is the perfect solution if you include methodology.” - P4

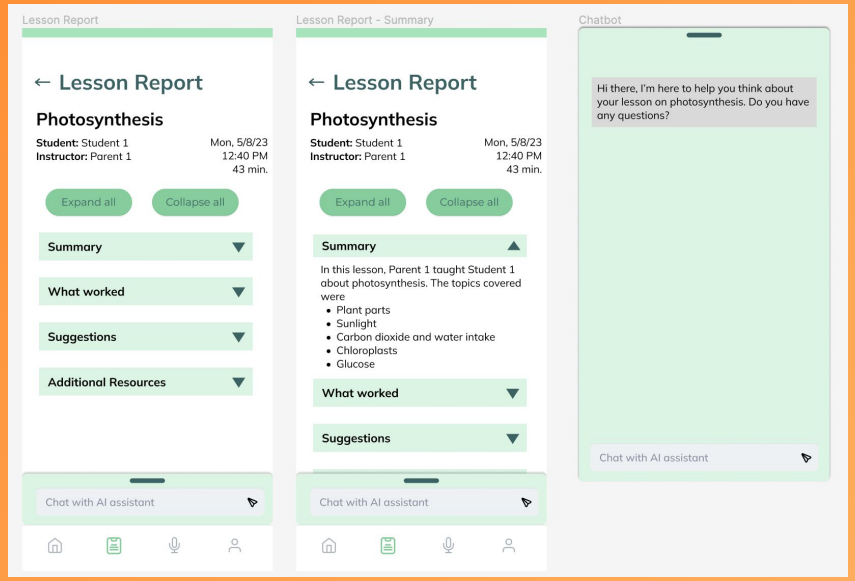
Redesign 2

Link to Figma

Redesign 2

1. Lesson Report
2. AI Agent
3. Lesson Reports List
4. Tip of the Day
5. Lesson Recording

Redesign 2: Lesson Report



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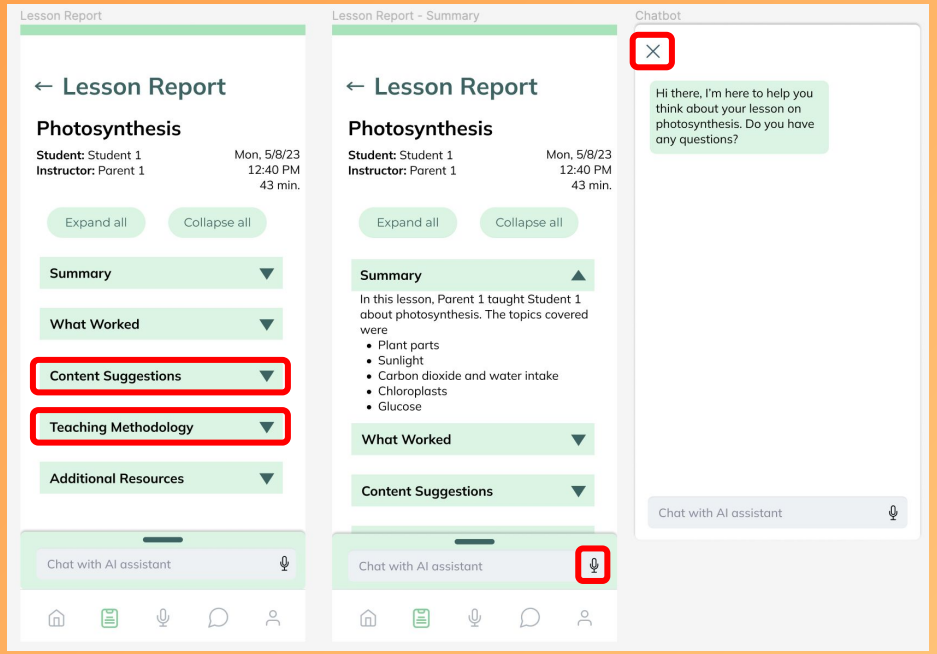
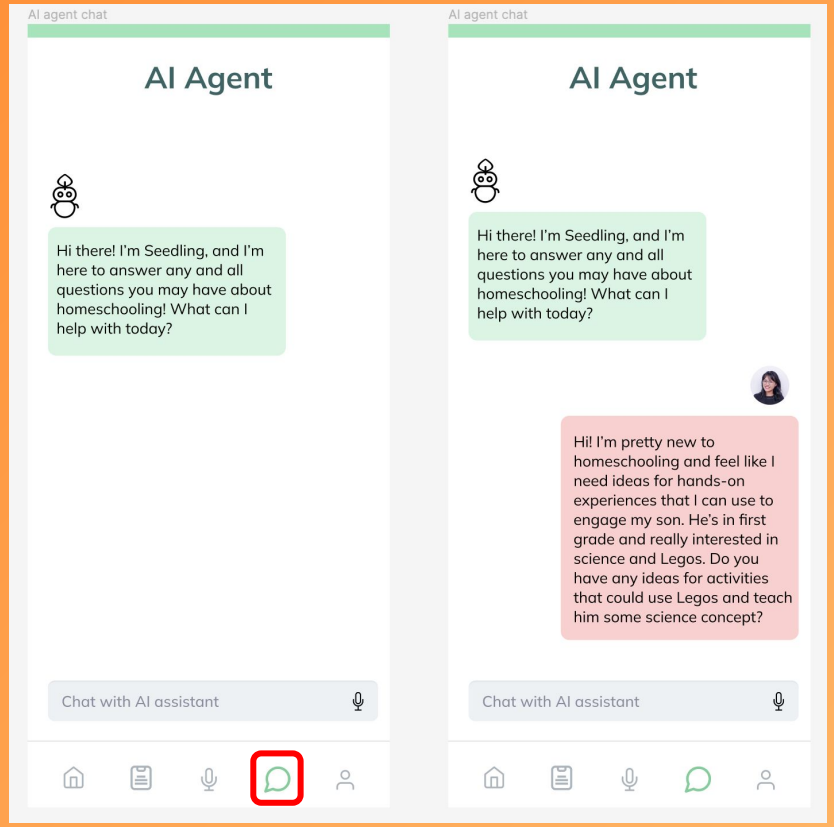


After

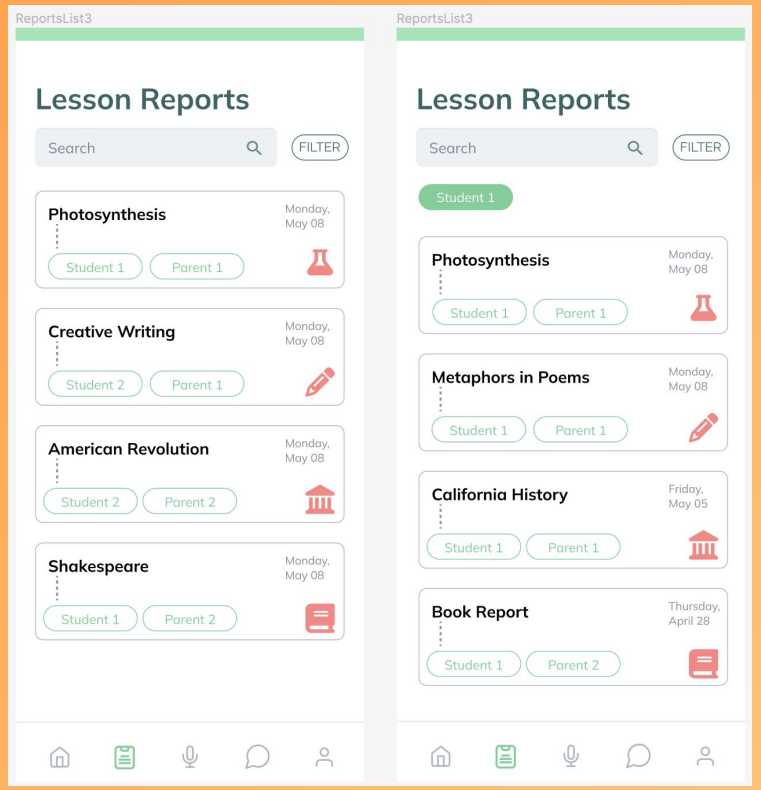
Redesign 2: General AI Agent



"You're providing parents with the kind of expertise they would get when sitting down with an education expert." - P4

Redesign 2: Lesson Reports List

Before



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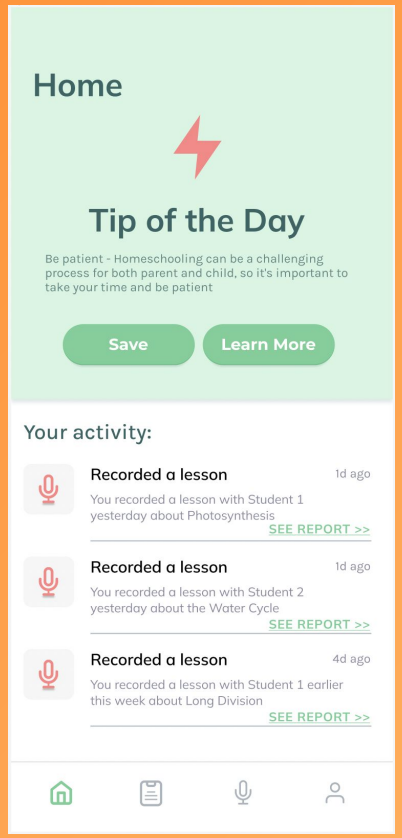
Redesign 2: Tip of the Day



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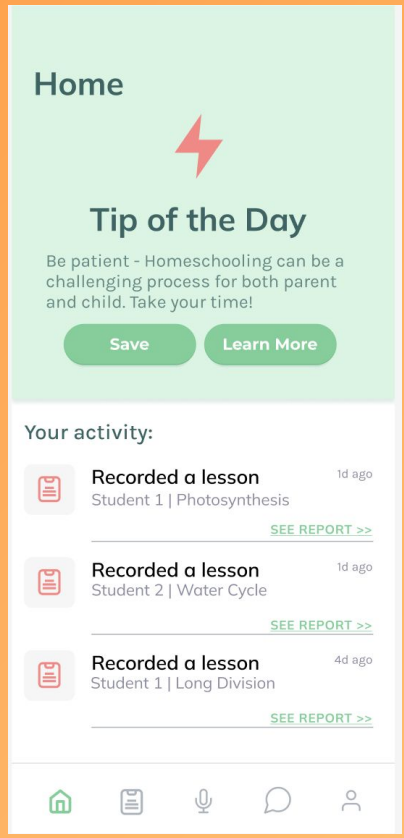

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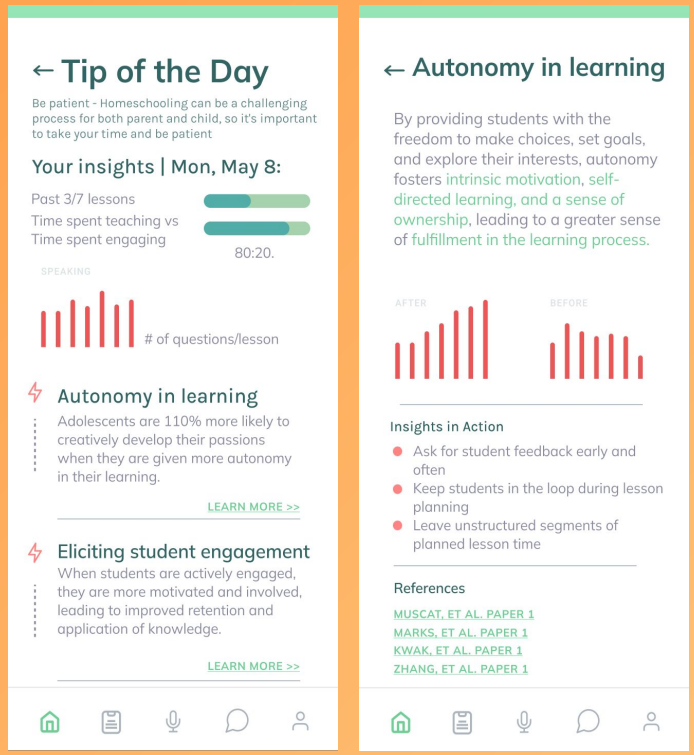
Redesign 2: Tip of the Day

Before



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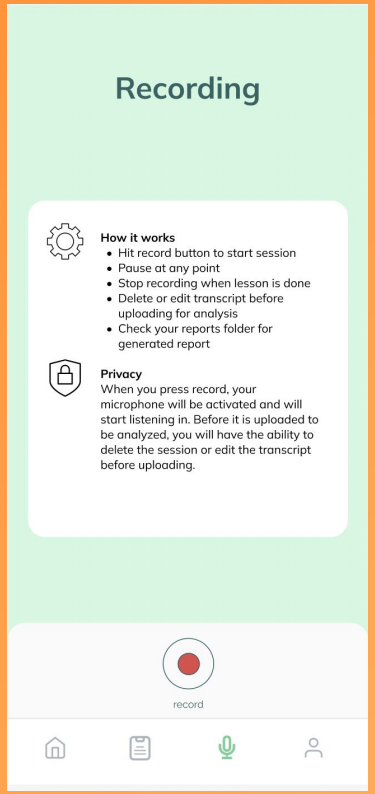
Redesign 2: Lesson Recording



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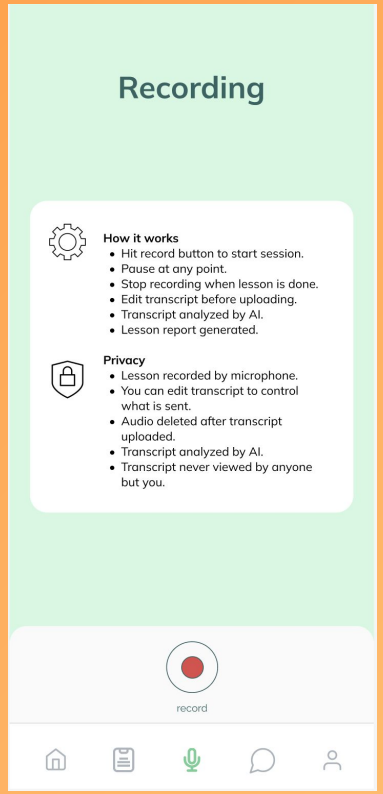

After

AI Applications

AI Applications

- Lesson speech to text
- Generated lesson reports
  - Information sectioned by topic
- Interactive AI agent
  - Lesson-specific
  - General

Thank you!

Questions? Feedback?

Appendix

Link to Report

https://docs.google.com/document/d/1IskvRsZR5QBc3FDfkF3DyniksQuoG1d73ZQel29CK3I/edit